



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/068,001	02/08/2002	Billy Hogan	HWB 2380-604	6407
23117 7590 11/01/2007 NIXON & VANDERHYE, PC 901 NORTH GLEBE ROAD, 11TH FLOOR			EXAMINER	
			NGUYEN, KHAI MINH	
ARLINGTON, VA 22203			ART UNIT	PAPER NUMBER
			2617	
			MAN DATE	
		•	MAIL DATE	DELIVERY MODE
	•		11/01/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

(Application No.	Applicant(s)			
		10/068,001	HOGAN ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Khai M. Nguyen	2617			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SH WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DAISIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period we are to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 10 At	ugust 2007.				
2a)	This action is FINAL . 2b)⊠ This action is non-final.					
3) 🗌	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims					
5)□ 6)⊠ 7)⊠	Claim(s) <u>1-19,42-72 and 87-92</u> is/are pending 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) <u>1-6,15-16,18,42-45,50-51,54-59,66-68</u> Claim(s) <u>7-14,17,19,46-49,52-53,60-65,70, and Claim(s)</u> are subject to restriction and/or	wn from consideration. 9,71, and 87-92 is/are rejected. d 72 is/are objected to.				
Applicat	ion Papers	·				
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine	epted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority (under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachmer	nt(s)					
1) Notice 2) Notice 3) Infor	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate			

DETAILED ACTION

Response to Arguments

1. Applicant's argument with respect to claim 1-19, 42-72 and 87-92 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-3, 5-6, 15-16, 18, 42-44, 50-51, 54-56, 58-59, 66-69, 71 and 87-92 are rejected under 35 U.S.C. 103(a) as being unpatentable over Salmela, Seija (WO 98/30056) in view of Nordstrand (U.S.Pat-6334052).

Regarding claim 1, Salmela teaches a telecommunications network comprising a radio access network which generates and transmits (fig. 1, pg. 2, lines 6-17), in a broadcast channel over an air interface (fig. 1, pg. 2, lines 6-17), an access group eligibility message which enables a user equipment unit which receives the access group eligibility message to make a determination whether the user equipment unit is eligible to operate or not operate in a cell for which the access group eligibility message is transmitted (abstract, pg. 4, lines 2-30, pg. 5, line 14 to pg. 6, line 20), the determination involving a comparison of access group eligibility information transmitted in the access group message and an access group classification (not show) (pg. 5, line 14 to pg. 6, line 20), the access group classification having been generated by a core network node

Art Unit: 2617

(fig.1, pag.5, lines 14-27), which classified the user equipment unit into at least one of plural access groups (fig.1, abstract).

Salmela fails to specifically disclose an access group classification. However, Nordstrand teaches an access group classification (col.4, lines 6-50). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to apply the teaching of Nordstrand with Salmela to provide a method for supplying services to mobile station.

Regarding claim 2, Nordstrand and Salmela further teach the apparatus of claim 1, wherein the access group eligibility message indicates what subscriber groups are eligible to operate in the cell for which the access group eligibility message is transmitted (see Salmela, abstract, pg.4, lines 2-30, pg.5, line 14 to pg.6, line 20).

Regarding claim 3, Nordstrand and Salmela further teach the apparatus of claim 1, wherein the access group eligibility message indicates what restriction groups are not eligible to operate in the cell for which the access group eligibility message is transmitted (see Salmela, abstract, pg.4, lines 2-30, pg.5, line 14 to pg.6, line 20).

Regarding claim 5, Nordstrand and Salmela further teach the apparatus of claim 1, wherein a radio access network node transmits the access group eligibility message (see Salmela, abstract, pg.4, lines 2-30, pg.5, line 14 to pg.6, line 20), and further comprising a core network node which, upon receipt of a location update request for the user equipment unit (see Nordstrand, col.4, lines 29-50, col.10, line 35 to col.11, line 10), classifies the user equipment unit in at least one of plural access groups (see

Art Unit: 2617

Salmela, abstract, pg.4, lines 2-30, pg.5, line 14 to pg.6, line 20) and generates for transmission to the user equipment unit through a radio access network an access group classification message which advises the user equipment unit as to which of the plural access groups the user equipment unit belongs (see Salmela, abstract, pg.4, lines 2-30, pg.5, line 14 to pg.6, line 20).

Regarding claim 6, Nordstrand and Salmela further teach the apparatus of claim 5, wherein the user equipment unit stores an access group classification obtained from the access group classification message in a memory at the user equipment unit (see Nordstrand, col.4, lines 6-50).

Regarding claim 15, Nordstrand and Salmela further teach the apparatus of claim 1, wherein the access group classification message is one of a location update response (see Nordstrand, col.4, lines 29-50, col.10, line 35 to col.11, line 10) and a location update reject message (see Nordstrand, col.4, lines 29-50, col.10, line 35 to col.11, line 10), which includes the access group classification (see Nordstrand, col.4, lines 6-50).

Regarding claim 16, Nordstrand and Salmela further teach the apparatus of claim 1, wherein the access group classification message is one of a location update response (see Nordstrand, col.4, lines 29-50, col.10, line 35 to col.11, line 10) and a location update reject message which includes the access group classification and a version field associated with the access group classification (see Nordstrand, col.4, lines 29-50, col.10, line 35 to col.11, line 10).

Art Unit: 2617

Regarding claim 18 is rejected with the same reasons set forth in claim 16.

Regarding claim 42, Salmela teaches a user equipment unit which receives over an air interface an access group classification message and an access group eligibility message (fig. 1, abstract, pg.5, line 14 to pg.6, line 20), the access group classification message being generated by a core network node for advising the user equipment unit as to which of the plural access groups the user equipment unit belongs (fig.1, abstract, pg.5, line 14 to pg.6, line 20), the access group eligibility message being generated by a radio access network node for specifying eligibility of plural access groups to operate or not operate in a cell for which the access group eligibility message is transmitted (fig.1, abstract, pg.4, lines 2-30, pg.5, line 14 to pg.6, line 20), the user equipment unit comprising:

an access controller which stores an access group classification (not show) obtained from the access group eligibility message compares the stored access group classification (not show) with contents of the access group eligibility message (pg.5, line 14 to pg.6, line 20) to determine whether the user equipment unit is allowed access to the cell for which the access group eligibility message is transmitted (fig.1, abstract, pg.4, lines 2-30).

Salmela fails to specifically disclose an access group classification. However, Nordstrand teaches an access group classification (col.4, lines 6-50). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention

Art Unit: 2617

was made to apply the teaching of Nordstrand with Salmela to provide a method for supplying services to mobile station.

Regarding claim 43, Nordstrand and Salmela further teach the apparatus of claim 42, wherein the access group eligibility message indicates what subscriber groups are eligible to operate in the cell for which the access group eligibility message is transmitted (see Salmela, fig.1, abstract, pg.4, lines 2-30, pg.5, line 14 to pg.6, line 20).

Regarding claim 44, Nordstrand and Salmela further teach the apparatus of claim 42, wherein the access group eligibility message indicates what restriction groups are not eligible to operate in the cell for which the access group eligibility message is transmitted (see Salmela, fig.1, abstract, pg.4, lines 2-30, pg.5, line 14 to pg.6, line 20).

Regarding claim 50, Nordstrand and Salmela further teach the apparatus of claim 42, wherein the access group classification message is one of a location update response (see Nordstrand, col.4, lines 29-50, col.10, line 35 to col.11, line 10) and a location update reject message which includes the access group classification (see Nordstrand, col.4, lines 29-50, col.10, line 35 to col.11, line 10).

Regarding claim 51, Nordstrand and Salmela further teach the apparatus of claim 42, wherein the access group classification message includes the access group classification (see Salmela, fig.1, abstract, pg.4, lines 2-30, pg.5, line 14 to pg.6, line 20) and a version field associated with the access group classification (see Salmela, fig.1, abstract, pg.4, lines 2-30, pg.5, line 14 to pg.6, line 20).

Art Unit: 2617

Regarding claim 54, Salmela teaches a method of operating a telecommunications network comprising:

transmitting, in a broadcast channel over an air interface (fig.1, pg.2, lines 6-17), an access group eligibility message generated by a radio access network (fig.1, abstract, pg.2, lines 6-17, pg.4, lines 2-30);

receiveing the access group eligibility message at a user equipment unit (fig.1, abstract, pg.4, lines 2-30);

the user equipment unit using the access group eligibility message to make determination whether the user equipment unit is eligible to operate or not operate in a cell for which the access group eligibility message is transmitted (fig.1, abstract, pg.4, lines 2-30), the determination involving a comparison of access group eligibility information transmitted in the access group message and an access group classification (not show) (pg.5, line 14 to pg.6, line 20), which is generated by a core network (fig.1, pag.5, lines 14-27).

Salmela fails to specifically disclose an access group classification. However, Nordstrand teaches an access group classification (col.4, lines 6-50). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to apply the teaching of Nordstrand with Salmela to provide a method for supplying services to mobile station.

Regarding claim 55, Nordstrand and Salmela further teach the method of claim 54, further comprising including in the access group eligibility message an indication of

Art Unit: 2617

what subscriber groups are eligible to operate in the cell for which the access group eligibility message is transmitted (see Salmela, fig.1, abstract, pg.4, lines 2-30, pg.5, line 14 to pg.6, line 20).

Regarding claim 56, Nordstrand and Salmela further teach the method of claim 54, further comprising including in the access group eligibility message an indication of what restriction groups are not eligible to operate in the cell for which the access group eligibility message is transmitted (see Salmela, fig.1, abstract, pg.4, lines 2-30, pg.5, line 14 to pg.6, line 20).

Regarding claim 58 is rejected with the same reasons set forth in claim 5.

Regarding claim 59 is rejected with the same reasons set forth in claim 6.

Regarding claim 66, Nordstrand and Salmela further teach the method of claim 54, further comprising:

upon the user equipment unit entering a new cell which involves a transition to a new location area (see Salmela, fig.1, abstract, pg.4, lines 2-30, pg.5, line 14 to pg.6, line 20), checking the access group eligibility message transmitted for the new cell (see Salmela, fig.1, abstract, pg.4, lines 2-30, pg.5, line 14 to pg.6, line 20); and

comparing the stored access group classification with contents of the access group eligibility message to determine whether the user equipment unit is allowed access to the new cell (see Salmela, pg.5, line 14 to pg.6, line 20).

Art Unit: 2617

Regarding claim 67, Nordstrand and Salmela further teach the method of claim 66, further comprising, upon the user equipment unit entering a new cell which does not involve a transition to a new location area (see Salmela, abstract, pg.5, line 14 to pg.6, line 20), the user equipment unit not checking the access group eligibility message (see Salmela, pg.5, line 14 to pg.6, line 20).

Regarding claim 68, Nordstrand and Salmela further teach the method of claim 54, wherein the access group classification message is one of a location update response (see Nordstrand, col.4, lines 29-50, col.10, line 35 to col.11, line 10) and a location update reject message which includes the access group classification (see Nordstrand, col.4, lines 29-50, col.10, line 35 to col.11, line 10).

Regarding claim 69 is rejected with the same reasons set forth in claim 18.

Regarding claim 71 is rejected with the same reasons set forth in claim 18.

Regarding claims 87-89, Nordstrand and Salmela further teach the apparatus of claims 1, 42 and 54, where the access group eligibility information comprises a subscriber group having a composition pre-agreed with a network operator (see Salmela, pg.5, line 14 to pg.6, line 20).

Regarding claim 90, Nordstrand and Salmela further teach the apparatus of claim 1, wherein the access group classification is received individually by the user equipment unit (see Salmela, abstract, see Nordstrand, fig.5), and wherein the user equipment unit is configured to make the determination whether the user equipment unit is eligible to

Art Unit: 2617

operate or not in the cell without the user equipment unit establishing a connection with the radio access network (see Nordstrand, col.4, lines 6-50).

Regarding claim 91 is rejected with the same reasons set forth in claim 90.

Regarding claim 92 is rejected with the same reasons set forth in claim 90.

4. Claims 4, 45, and 57 are rejected under 35 U.S.C. 103(a) as being unpatentable over Salmela, Seija (WO 98/30056) in view of Nordstrand (U.S.Pat-6334052) and further in view of Keronen et al. (U.S.Pub-20030003909).

Regarding claim 4, Nordstrand and Salmela further teach the apparatus of claim 1,

Nordstrand and Salmela fail to specifically disclose wherein the access group eligibility message includes a bitmap which indicates eligibility for plural access groups. However, Keronen teaches wherein the access group eligibility message includes a bitmap which indicates eligibility for plural access groups (fig.3-5, [0011]-[0013]). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to apply the teaching of Keron to Nordstrand and Salmela to provide a method for providing location-specific service provider information to a mobile station.

Regarding claim 45 is rejected with the same reasons set forth in claim 4.

Regarding claim 57 is rejected with the same reasons set forth in claim 4.

Art Unit: 2617

Allowable Subject Matter

5. Claims 7-14, 17,19, 46-49, 52-53, 60-65, 70 and 72 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khai M. Nguyen whose telephone number is 571.272.7923. The examiner can normally be reached on 8:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rafael Perez-Gutierrez can be reached on 571.272.7915. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Khai Nguye

Au: 2617

Rafael Perez-Gutierrez
Supervisory Patent Examiner

Technology Center 2600 Art Unit 2617

10/29/2

10/26/2007

Page 11